

L 29212-66

ACC NR: AP6019079

2nd stage of the reaction was not observed. The 4-stage, phasic changes in cardiac activity were secondary: they developed as a result of the effect of the primary changes (those in the blood pressure) on the baroreceptors of the carotid sinuses and of the aortic arch. On suppression of the sino-aortic mechanism, which masked the direct action of adrenalin on the heart, this action could be observed. Bilateral vagotomy or administration of atropine (0.1 mg/kg) did not affect the changes in blood pressure produced by adrenalin, but the phasic changes in cardiac activity were eliminated. On administration of ganglion-blocking agents (10 mg/kg tetramin-I or 1-2 mg/kg hexonium), these phasic changes also did not take place - there was only a uniform acceleration in cardiac activity. The direct action on the heart predominated over the reflex mechanism when doses of adrenalin greater than 500 gamma were administered: a pronounced tachycardia was produced, while the blood pressure increased simultaneously. Orig. art. has: 6 figures. [JPRS] O

SUB CODE: 06 / SUBM DATE: 20Jan64 / ORIG REF: 010 / OTH REF: 015

Card 2/2 CC

LOOGA, R.Yu. [Looga, R.]; KULL', M.M. [Kull, M.]

Method of bloodless determination of arterial pressure in laboratory animals. Biul. eksp. biol. i med. 55 /i.e. 56/ no.10: 116-119 O'63
(MIRA 17:8)

1. Iz kafedry patologicheskoy fiziologii (ispolnyayushchiy obyazannosti zaveduyushchego - dotsent R. Looga) Tartuskogo universiteta. Predstavlena deystvitel'nym chленom AMN SSSR V.V. Parinym.

VOGEL, R.; KELLY, M.M. (KULL, L.); KOOGA, L.

Changes in the arterial pressure and cardiac rhythm in dogs
following introduction of adrenaline. Fiziol. zhur. 51
(MIFI A 18-6) no.5:564-571 May '65.

I. Kafeiro patologicheskoy fiziologii Sosudarnivennogo
universiteta, Tartu.

KULLA, G.

"Cellulose for Further Chemical Treatment." p. 62 (CHEMICKE ZVESTI, Vol. 5, No. 1/2,
Jan./Feb. 1951) Bratislava, Czechoslovakia

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4,
April 1954. Unclassified.

KULLE, P.A.

ANTONOV, N.P.; KULLE, P.A.; MARAMZIN, A.V.; UTKIN, I.A.; VITTORF, M.V.,
redaktor; MOLOKOVA, Ye.I., vedushchiy redaktor; SOKOLOVA, Ye.V.,
tekhnicheskiy redaktor

[Exploratory drilling with the ZIF-300 drilling unit; practical
manual] Razvedochnoe burenie stankami ZIF-300; prakticheskoe
rukovodstvo. Leningrad, Gos. nauchno-tekhn. izd-vo neftianoi i
gorno-toplivnoi lit-ry, 1954. 221 p. (MLRA 7:9)
(Boring machinery)

KULLE, P. A., PONOMAREV, P. V.

"Basic Principles of the Hydroelectrical Effect and Possibilities of Its
Use in Borehole Drilling"

(New Developments in the Methods and Techniques of Geological Exploration)
Leningrad, Gostoptekhnadat, 1958. 423 p. (Series: Itst Sbornik trudov I)

KULLS, P.A.; PONOMAREV, P.V.

Nature of the electrohydraulic method and possibilities of
using it in drilling wells. Trudy VITR no.1:366-388 '58.
(MIRA 12:1)
(Boring)

KULLE, P.A.; LOPACHENOK, L.V.

Automation of the process of drying of salts in an apparatus
with a fluidized bed. Khim.prom. no.11:805-808 N '62.

(MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut galurgii.
(Salts--Drying) (Fluidization)
(Automatic control)

KULLE, P.A., doktor tekhn.nauk; LOPACHENOK, L.V.

Automatic control of a fluidized-bed unit for drying potassium chloride. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekhn.inform. no.2:16-18 '63. (MIRA 16:2)
(Potassium chloride--Drying) (Automatic control)

KULLE, P.A.; LOPACHENOK, L.V.

Electron modeling of automatic control systems for dryers with
fluidized bed. Khim.prom. 41 no.6:412-415 Je '65.

(MIRA 18:8)

KULLE, Ye. A.

"The Problem of the Long-Term Incubation Period of Tertian Malaria in Vologoda Oblast", Med. Faraz. i Paraz. Bolez., Vol. 17, No. 1, pp 57-64, 1948.

8/137/62/000/001/15⁴/237
A006/A101

AUTHOR: Kullel, I.

TITLE: Recommendations as to the melting and processing of the L-21⁴ alloy

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 1, 1962, 44-45, abstract
11310 (V sb. "26-y Mezhdunarodn. kongress liteysinchikov, 1959", Mos-
cow, Mashgiz, 1961, 530 - 537)

TEXT: Mechanical tests and microscopical investigations were made with a great number of specimens of different heats of the L-21⁴ alloy. The tests made it possible to establish a definite connection between δ_g and δ , which is expressed by a straight line on the semi-logarithmic scale. Specimens, for which δ_g and δ are located directly on this line or close to it, do not possess inter-crystalline microporosity. If however, the values of mechanical properties are located below the aforementioned line, this indicates intercrystalline porosity, which is usually connected with insufficient dissolving of strengthening phases. Experimental data were analyzed and a comparison was made of the chemical compositions of the L-21⁴ alloy, French grade alloys AJR3380, AF NOR-A57-702, Italian grade G-Al, Cu 4.5, and German DIN1725 alloys. The following composition of the

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Recommendations as to the melting ...

8/137/62/000/001/154/237
A006/A101

alloy can be recommended (in %): Cu 4.0 - 4.8; Ti 0.2 - 0.3; Mg 0.15 - 0.3; Si \leq 0.3, Zn \leq 0.1 and other elements \leq 0.2. A higher Cu content (over 5%) is not recommended due to the danger of arising composite low-melting eutectics, which may entail burning of the alloy during heat treatment. To assure maximum dissolving of secondary phases, the following heat treatment conditions are recommended: heating for 3 hours from 100 to $530 \pm 5^\circ\text{C}$, holding for 6 hours, temperature decrease to 500°C , 1 hour holding, cooling in water at 50°C , heating at $130 \pm 20^\circ\text{C}$ for 2 hours with subsequent air cooling.

E. Kadaner

[Abstracter's note: Complete translation]

Card 2/2

KIRRET, O.; KÜLLIK, E.

Identification of natural and synthetic fibers by the gas chromatographic method. Izv. AN Est. SSR. Ser. fiz.-mat. i tekhn. nauk 13 no.1:15-21 '64 (MIRA 18:1)

1. Academy of Sciences of the Estonian S.S.R., Institute of Chemistry. 2. Corresponding Member of the Academy of Sciences of the Estonian S.S.R. (for Kirret).

KULMAN, Eugen

Effect of Quaternary sediments on the hydrogeologic conditions
of the piedmont depression of Lahorska nizina. Geol prace
64:159-164 '63.

I. Dionyz Stur Geological Institute, Bratislava.

KLIMES-SZMIK, Andor; KULLMANN, Anton

Factors directly influencing the determination of the porosity of soils. Agrokem talajtan 2 no.1:55-72 Mr '62.

1. Magyar Tudomanyos Akademia Talajtani es Agrokemial Kutato Intezete, Budapest (for Klimes-Szmiik). 2. NMgTA Foldmuvelesi es Novenytermesztesi Kutato Intezete, Muncheberg/Mark, Nemet Demokratikus Koztarsasag (for Kullmann).

KULIMANN, Lajos, MAV muszaki fotanacsos

The work of the International Railway Union and the
Organization for Cooperation of Socialist Railways in the
development of railroad vehicles. Jarmu mezo gep 10 no.4:121-126
Ap '63

KMILYATI, H.

Development in woodworking machinery during the past 40 years. Tr. from the German. p.91

FAIPAR. (Faipari Tudomanyos Egyesulet)
Budapest, Hungary
Vol. 9, no.3, Mar. 1959

Monthly List of East European Accessions (EAT) LC., Vol. 8, no.7, July 1959
Uncl.

KULLOI-RHÖHER, L.

Therapeutic value of the cervical sympathetic block; experiences from
700 experimental infiltrations. Orv. hetil. 92 no.19:592-596 13 May
1951. (CIML 24:2)

1. Doctor. 2. First Surgical Clinic (Director -- Prof. Dr. Gyula
Sebesteny), Lorand Eotvos University, Budapest.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927510011-5

KULLOI-RHORER, Laszlo, dr.

Modified operative method for sympathetic denervation of the upper extremities. Magy. sebeszet 8 no.1:62-68 Feb 55.
(SYMPATECTOMY,
dorsal, modified method)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927510011-5"

KULLOI RHORER, Laszlo, Dr.

Justification of high lumbar sympathectomy. Magy. sebeszet 10 no.2-3:
114 119 Apr-June 57.

1. A Budapesti Orvos tudomanyi Egyetem II. sz. Sebeszeti Klinikajának
kozlemenye Igazgató: Rubanyi Pal dr. egysémi tanár.

(SYMPATECTOMY, in various dis.
high lumbar sympathectomy in peripheral vasc. dis.,
evaluation (Hun))

(VASCULAR DISEASES, PERIPHERAL, surg.
sympathectomy, high lumbar, evaluation (Hun))

KULLOI-RHORER, L.; ERDELYI, M.; MESZOLY, I.; VOTIN, J.

Clinical experiences on the therapy of postoperative complaints following cholecystectomy. Acta med. hung. 10 no.3:261-272 1957.

1. II. Chirurgische Klinik der Medizinischen Universität,
Budapest.

(CHOLECYSTECTOMY, compl.

postcholecystectomy synd., choledochoduodenostomy
(Ger))

(BILE DUCT, COMMON, surg.

choledochoduodenostomy in postcholecystectomy synd.
(Ger))

(DUODENUM, surg.

same)

KULLOI-RHORER, Laszlo, dr.

Data on the surgical treatment of elephantiasis. Orv. hetil.
98 no.1-4:56-60 Jan 57.

1. A Budapesti Orvostudomanyi Egyetem III. sz. Sebészeti Klinikajának (igazgató: Rubányi, Pál, dr. egyet. tanár) kozleménye.

(LYMPHEDERMA, surg.

elephantiasis, lymphangectomy with total superficial
surg. (Hung))

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927510011-5

KULLOI-RHOHER, Laszlo, dr., sebeszfoorvos

Fundamentals of health protection. Vasut 14 no.11:20 '64.

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927510011-5"

KULLOI-RHORER, Laszlo, dr.

Surgically cured duodenal carcinoid. Orv. hetil. 106 no.12:
553-555 21 Mr '65

1. Mav Korhaz es Kozponti Rendelointezet, I. Sebeszeti Osztaly.

SMIRNOV, V.N.; SPIRIN, A.S.; KULLYYEV, P.; ZBARSKIY, I.B.

RNA synthesis in the silk gland of the mulberry silkworm. Dokl.
AN SSSR 155 no. 4:957-960 Ap '64. (MIRA 17:5)

1. Institut biokhimii im. A.N.Bakha AN SSSR i Institut
morfologii zhivotnykh im. A.N.Severtsova AN SSSR. Predstavлено
академиком A.N.Belozerskim.

SITROV, V.N.; KULLYEV, P.; VARSHAVSKIY, Ya.M.; SPIRIN, A.S.

Participation of ribosomes in the biosynthesis of silk fibroin.
Dokl. AN SSSR 156 no. 5:1221-1224 Je '64. (MIRA 17:6)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR
i Institut biokhimii im. A.N.Bakha AN SSSR. Predstavлено akademikom
A.N.Belozerskim.

MAMEDNIYAZOV, O.N.; SOLOV'YEVA, N.V.; KULLYYEV, P.; KASPAR'YANTS, L.R.

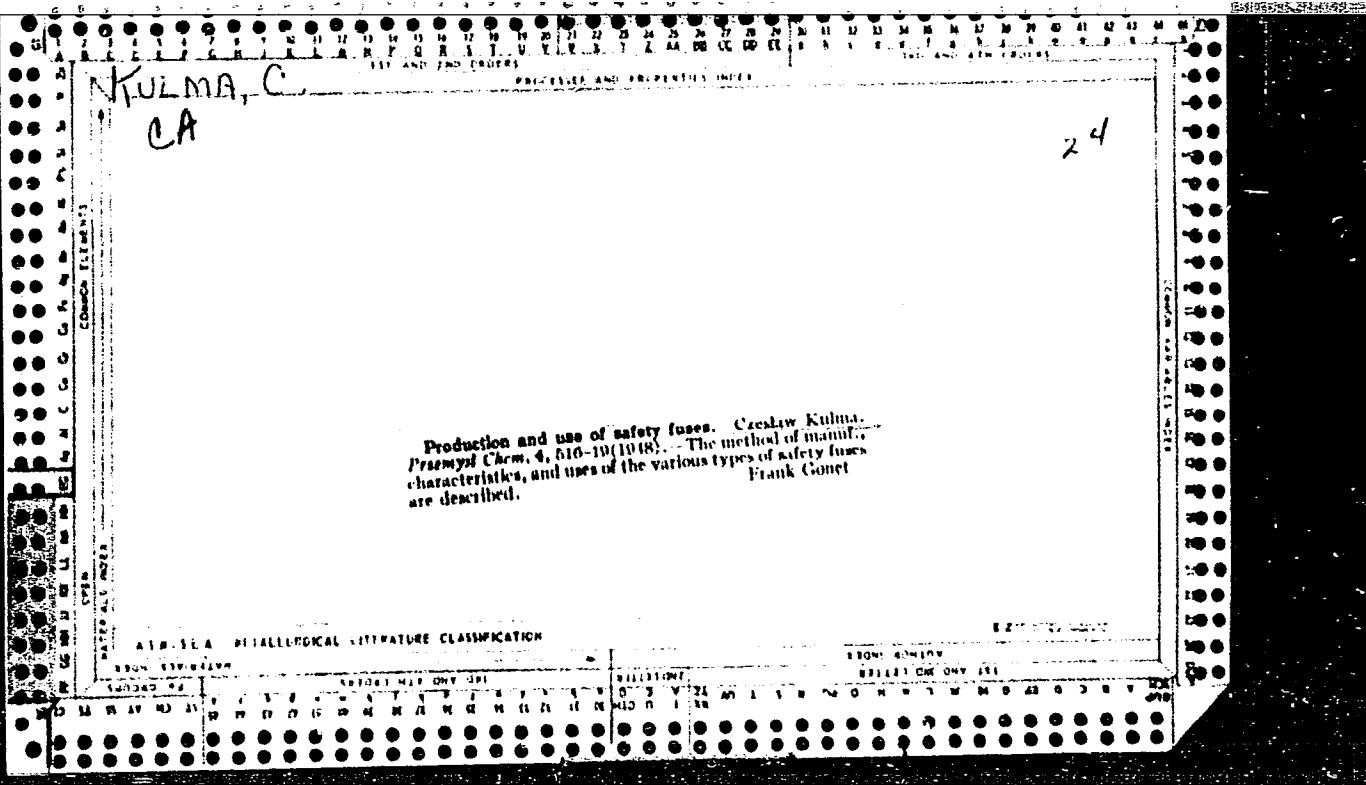
Comparative study of the chemical composition of different mulberry varieties growing in Chardzhou District, Turkmen S.S.R. Izv. AN Turk. SSR. Ser. biol. nauk no.5:68-72 '61. (MIA 14:12)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR.
(CHANDZHOU DISTRICT--MULBERRY--VARIETIES)

MAMEDNIYAZOV, O.N.; KASPAR'YANTS, L.R.; KULLYYEV, P.

Content of nitrogen compounds in the hemolymph of various mulberry
silkworm strains differing in their productivity. Izv. AN Turk.
SSR. Ser. biol. nauk no.2:69-73 '62. (MIRA 17:4)

1. Institut zoologii i parazitologii AN Turkmeneskoy SSR.



BA KULMA, O.

*RJ
4*

*Research on core binders. O. Kulma and Z. Wertz (Przeglad
Obrony, 1951, 2, 128-134; J. Iron Steel Inst., 1951, 180, 403).—
Methods of testing core binders are described, and results of a study
of binders presented.
R. B. CLARKE.*

KULMA, O.; WERTZ, Z.

Changes in core strength during its moistening. p. 293.

PRZEGLAD ODLEWNICTWA. (Stowarzyszenie Techniczne Odlewnikow Polskich)
Krakow, Poland, Vol. 9, no. 10, Oct. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

KULMA, S., NEUMANN, S.

"Łożyska toczone" (Roller bearing), by S. Kulma, S. Neumann. Reported in
New Books (Nowe Ksiazki), No. 14, July 15, 1955

KULMA, S.

The standardization of journal bearings. p. 473.
MECHANIK, Warazawa. Vol. 28, no. 12, Dec. 1955.

SOURCE: East European Acession List (EEAL) Library of Congress
Vol. 5, no. 8, August 1956.

98-58-4-8/18

AUTHOR: Kul'mach, P.P., Candidate of Technical Sciences

TITLE: On the Rigidity of Foundations of Massive Hydro-Technical Structures (O zhestkosti osnovaniy massivnykh gidrotekhnicheskikh sooruzheniy)

PERIODICAL: Gidrotehnicheskoye Stroitel'stvo, 1958, Nr 4, pp 35-38 (USSR)

ABSTRACT: In the calculation of free and forced oscillation of hard bodies on an elastic foundation, formulas are used, which include coefficients of rigidity of foundation C_x , C_z and C_r with regard to shear, compression and rotation of a solid body around a horizontal axis passing through the center of gravity of the bottom. In the latter case the shift of A representing a given point of the structure under the effect of torque could be determined by the formula

$$A = \frac{Mr}{J_o C_r}$$

in which r - is the distance between the axis of rotation and the given point

Card 1/3 and J_o - the moment of inertia of the surface of the bottom

98-58-4-8/18

On the Rigidity of Foundations of Massive Hydro-Technical Structures

of the structure in relation to the axis of rotation. This formula and those developed are the result of special experimental and theoretical investigations. However, there is no experimental data from which it would be possible to determine the coefficient of rigidity of the foundation of massive hydro-technical structures standing in water and subject to considerable stress at the bottom. In this connection data pertaining to oscillations of certain existing structures, in particular investigations carried out on the breakwater in Algiers, are of special interest. A cross section of the breakwater is shown, consisting of 4 layers of masonry, each weighing 400 - 500 tons topped by a monolithic superstructure. This massive wall which measures 13 m at the bottom rests on a 4 m stone foundation. In 1934, the breakwater was severely damaged. Extensive investigations, which were conducted to determine the cause, furnished valuable information which permitted the evaluation of the coefficient of rigidity of the base of the breakwater. The results of these experiments are fully described as are the results of similar tests at Tuapse, Yalta, Feodosiya, Zeebryugge, Marsel and Kataniya. In all cases, it was observed

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98-58-4-8/18

On the Rigidity of Foundations of Massive Hydro-Technical Structures

that breakwaters begin to sway even when small waves beat against the walls. The subject demands special investigations, however, the results shown can be utilized in the dynamic calculations of hydrotechnical structures. There are 3 figures, 1 table and 13 references, of which 8 are Soviet, 3 French and 2 Italian.

AVAILABLE: Library of Congress

Card 3/3 1. Structures-Design 2. Structures-Mathematical analysis
 3. Dams-Design

KUL'MACH, P.P., kand.tekhn.nauk

Vibration of a solid body resting on a mobile elastic foundation.
Izv. VNIIG 60:142-153 '58. (MIRA 13:6)
(Foundations) (Elastic solids)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927510011-5

KUL'MACH, P.P., kand. tekhn. nauk dots. (Leningrad)

Application of the problem in vibrations of elastically supported
solid bodies. Issl. po teor. sooruzh. no.8:79-91 '59.

(Foundations--Vibration) (Damping (Mechanics))
(MIRA 12:12)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927510011-5"

KUL'MACH, P.P. (Leningrad)

Dynamic calculation of structures with high rigid pile grillage;
seismic effect. Osn., fund. i mekh. grun. 4 no.3:21-24 '62.
(MIRA 15:7)

(Piling (Civil engineering))
(Earthquakes and building)

KUL'MACH, Pavel Petrovich; YUFIN, A.P., doktor tekhn. nauk, prof.,
otv. red.; ORPIK, S.L., red. izd-va; UL'YANOVA, O.G., tekhn.red.

[Hydrodynamics of hydraulic structures] Gidrodinamika gidrotekhnicheskikh sooruzhenii; osnovnye ploskie zadachi. Moskva, Izd-vo Akad. nauk SSSR, 1963. 189 p. (MIRA 16:2)
(Hydraulic structures)

KUL'PACH, P. P., kand tekhn nauk, dotsent

Action of water on the blades of a hydraulic turbine in presence
of vibrations. Izv vys ucheb zav; energ 7 no. 1:86-91 Ja '64.
(MIRA 17:5)

KUL'MAKHANOV, Ye.; SOLOPOV, A.; KOVALEV, V., prepodavatel'

News from schools. Prof.-tekh. obr. 20 no.1432, 3 of cover Ja '63.
(MIRA 1612)

1. Pomoshchnik direktora po kul'turnovospitatel'noy rabote khodzhey-linskogo uchilishcha mekhanizatsii sel'skogo khozyaystva No.24, Kara-Kalpakskaia ASSR (for Kul'makhanov). 2. Tekhnicheskoye uchilishche No.10, L'vov (for Kovalev).

(Voacational education)

22 (1)

AUTHORS:

Kul'mamet'yev, G., School Director, and Demin G., Deputy
School Director

SOV/27-59-2-11/30

TITLE: On the New Road (Na novom puti)

PERIODICAL: Professional'no-tekhnicheskoye obrazovaniye, 1959, Nr 2,
pp 18 - 19 (USSR)

ABSTRACT: The reorganization of the MTS and transfer of their equipment to the kolkhozes has necessitated a revision of present curricula in agricultural mechanization schools. As the existing Labor Reserve Schools will be maintained for the next 3 to 5 years, the authors believe that mechanization schools can divide their activities into 3 periods: 1) Present activities remain unchanged until 1961; 2) Transitional period 1962-63 and 3) Period of complete reorganization into agricultural vocational-technical schools. During the first period as before, young people, preferably with 7 years of education and not younger than 17 should be admitted. Changes in the curricula are suggested which would give the students more time to become skilled in repair work. Another suggestion aims at training a new type

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On the New Road

SOV/27-59-2-11/30

of workman - a mechanic with 1 year of training for installation and repair of stationary agricultural machinery. The authors complain that their school is short of up-to-date equipment such as tractors DT-24, DT-28, DSSh-16 and DT-54 with a hydraulic system, and of combiners S-4M, SK-3, PK-2, and stress that it is important to train students on modern equipment. During the transitional period, mechanization schools should work on two curricula: the old one with 1 year of training for tractor operators and the installation and repair mechanics and a new curriculum with 2 years of training. The new period is necessitated by introduction of the 8-year polytechnical school. It is also considered expedient that training farms have a minimum size of 500 to 700 ha with 250 to 300 students. During the transitional period the mechanization schools will gain some training experience according to the new curriculum and gradually prepare for the complete reorganization into rural vocational technical schools. The latter will admit only graduates from 8-year rural or urban schools. There is 1 photograph.

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SOV/27-59-2-11/30

On the New Road

ASSOCIATION: Uchilishche mekhanizatsii sel'skogo khozyaystva Nr 3
(Udmurtskaya ASSR) (School of Agricultural Mechanization
Nr 3 (Udmurt ASSR)

Card 3/3

18(5)

AUTHOR: Kul'mamet'yev, V.S., Engineer

SOV/128-59-6-18/25

TITLE: Centrifugally Cast Bushes

PERIODICAL: Liteynoye Proizvodstvo, 1959, Nr 6, p 42 (USSR)

ABSTRACT: Brass bushes of all dimensions have been cast in sand molds. The serviceable castings were 54% to 58% of the whole production. Now centrifugal casting (by means of metal molds with sand core material) has been introduced. (Mixture used: 85% of quartz sand, 15% of Marshallit, etc.). In this manner the production of defects was eliminated, non-ferrous metals saved, and the quality of the castings improved. There is 1 diagram

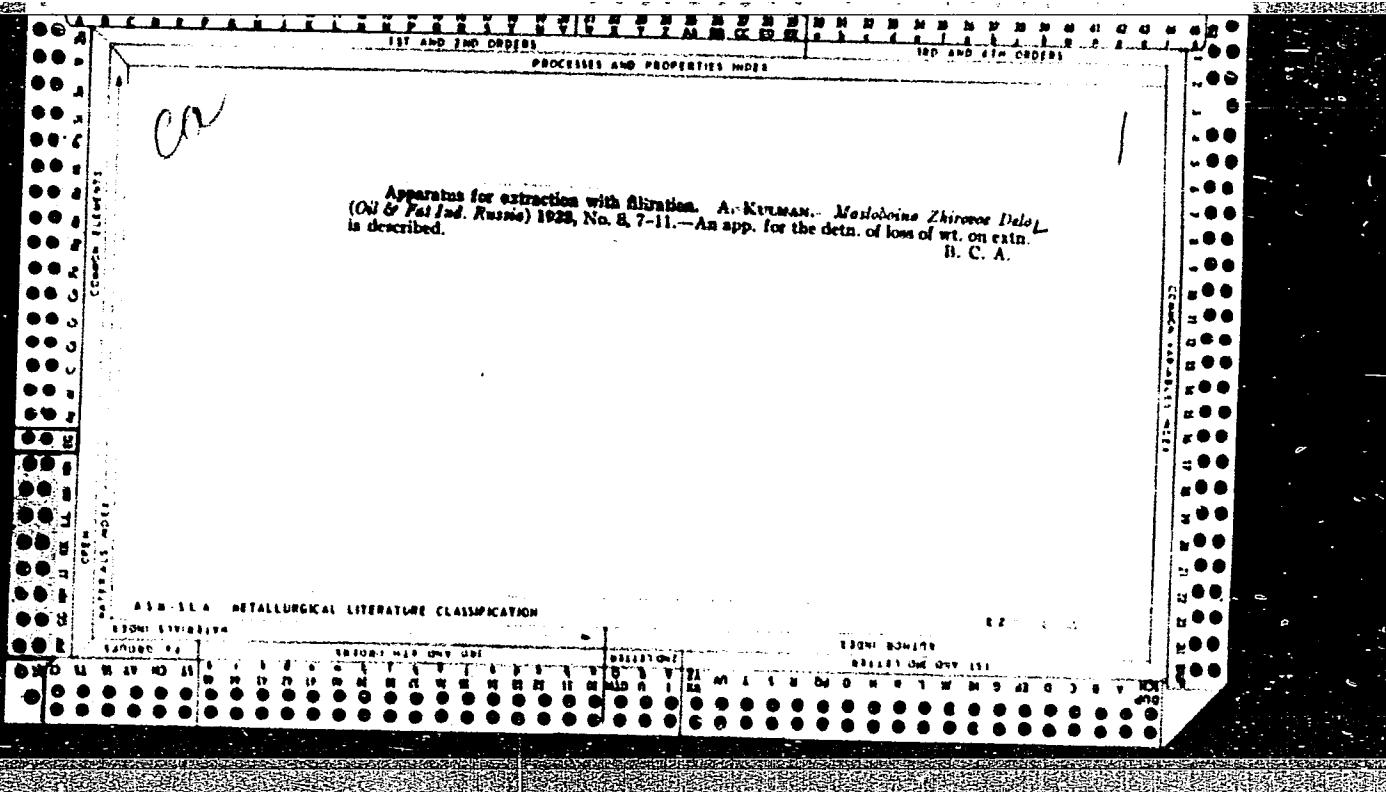
Card 1/1

KULMAN, A.

"Problems in determining the firmness of lumps and the formation of the lumpy structure of soils."

p. 147 (Mezhduna Rodnyi Selskokonoziaistvennyi Zhurnal, Vol. 2, No. 2, 1958, Sofia, Bulgaria).

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 12, Dec. 58.



DUMANSKIY, A. V., KUL'ALAN, A. G., and GOLOSOVA, G. E.

"Bound water in bread baking," n-L, Snabtekhizdat, 1934.

The combined water in hydrophilic colloidal systems. A. V. Dumanashvili, A. G. Kul'man and O. N. Golosova. *J. Applied Chem. (U. S. S. R.)* 7, 186-01(1934).—The ability to combine with water is an important property of the colloids present in leavened dough, dough and bread. Thus, the absorption capacity of different flours decreases in the following order: soybean, rye, corn, hard wheat, soft wheat, potato. Different ingredients of the flours have varying absorption properties; thus starch from rye is more hydrophilic than that from wheat. The colloids of the leavened dough are characterized by their high power of absorbing water. These colloids lose their hydrophilic properties to a considerable extent in the process of heating. Stale bread gradually loses its hydrophilic properties.

A. A. Bochtingck

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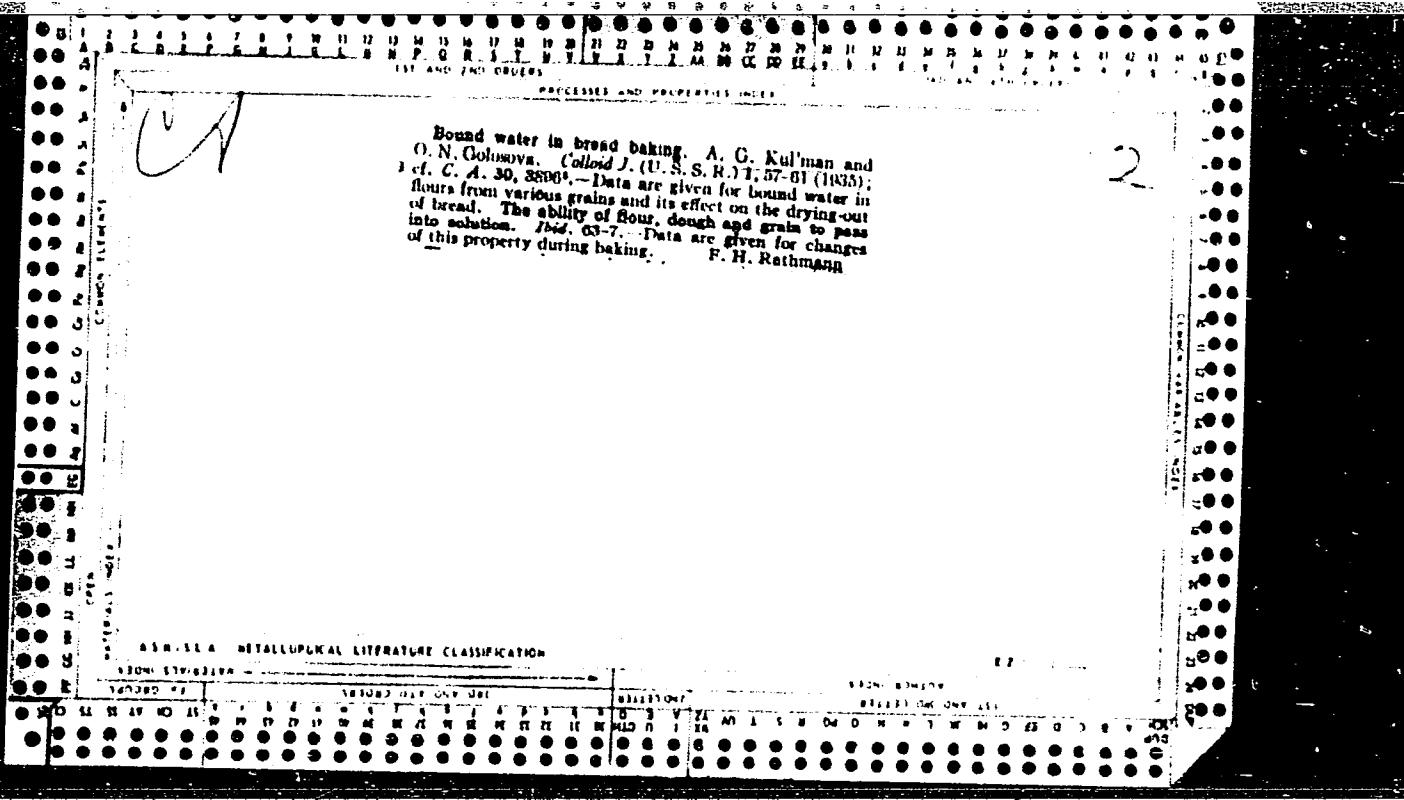
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SIGNAL CARD INDEX

KUL'MAN, A. G.

Textbook of general & inorganic chemistry 2-e perer. izd. Moscow, Sel'khoziz.
1935. 579 p.

OCL



Application of physicochemical methods to the study of bakery materials and products. A. G. Kulin'yan and O. N. Golosova. *Colloid J.* (U. S. S. R.) I, 355-70 (1935).—The hydrophylic nature of various flours was studied by the Gibbs-Durmanaki triangular-diagram method. Flours from wheat, rye, barley, corn, oats, potato, millet, pea and soybean show the same order in their hydrophylic, bound-water and oily, relations. The amount of peptizing substances present in various flours as determined by the Durmanaki ether-alc. coagulation method is specific for each kind of flour.

F. H. Rathmann

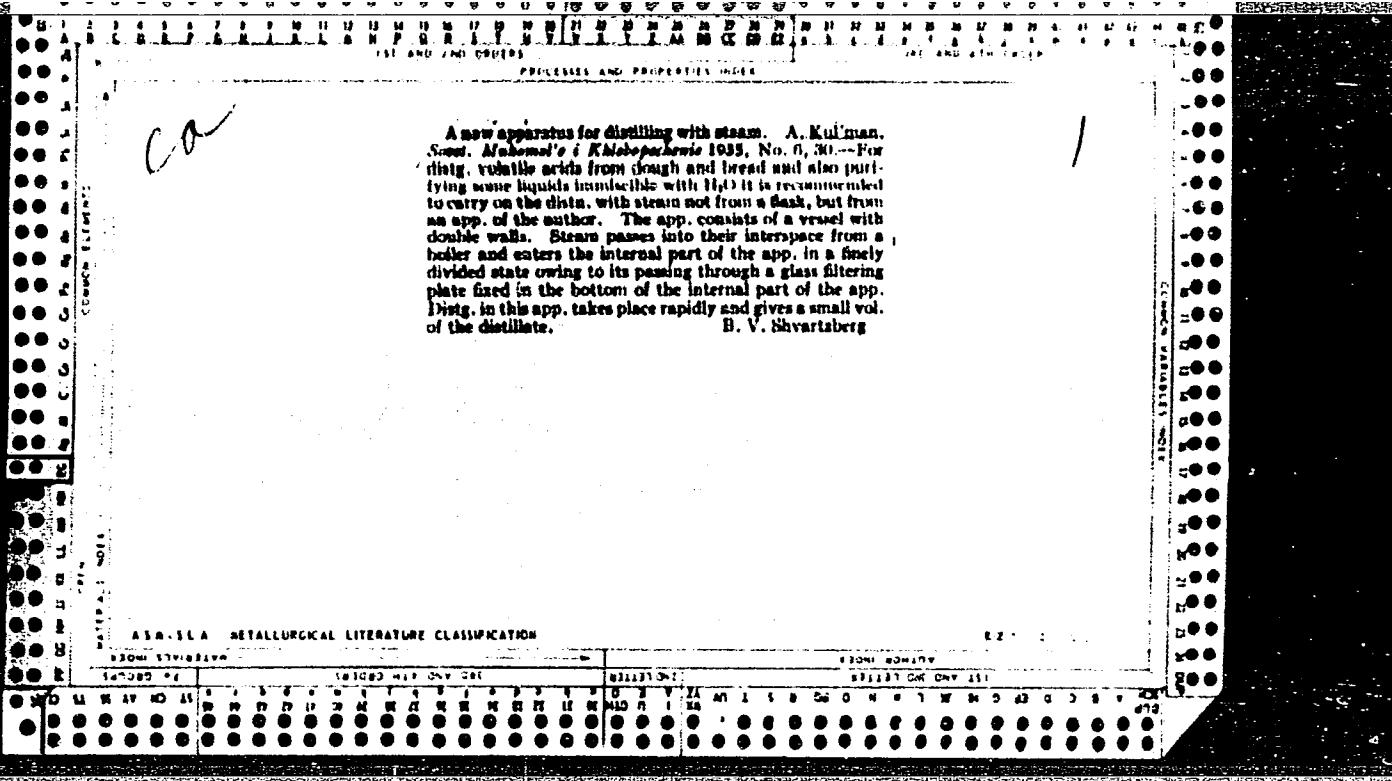
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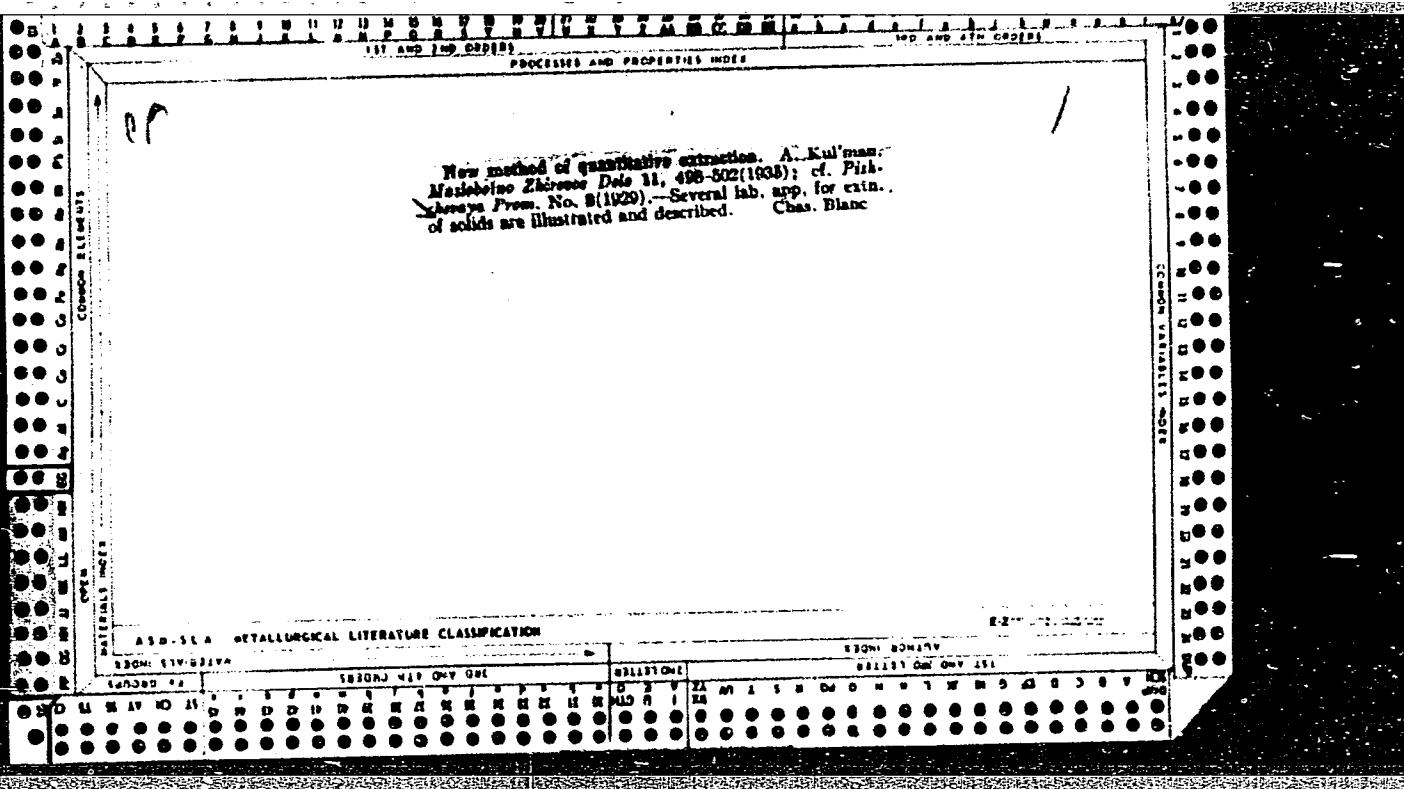
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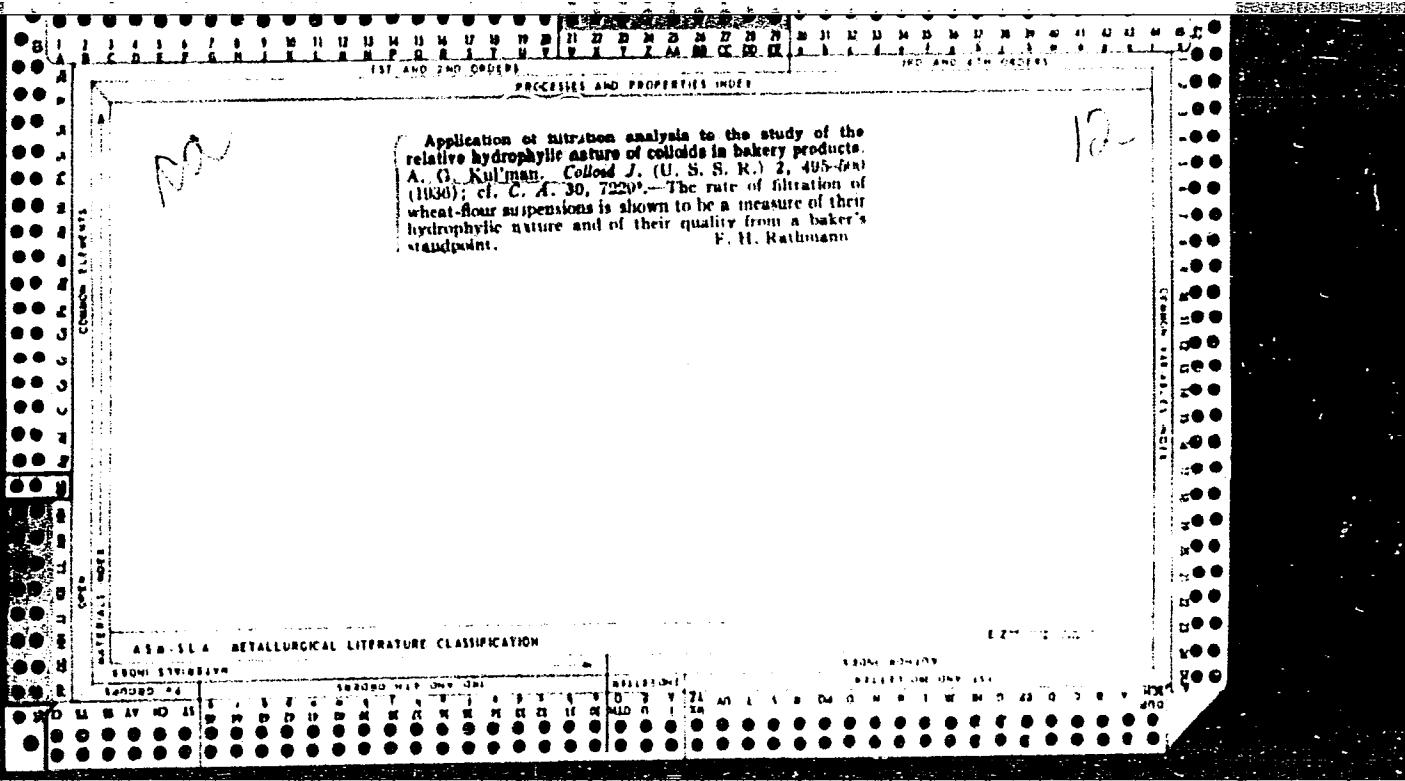
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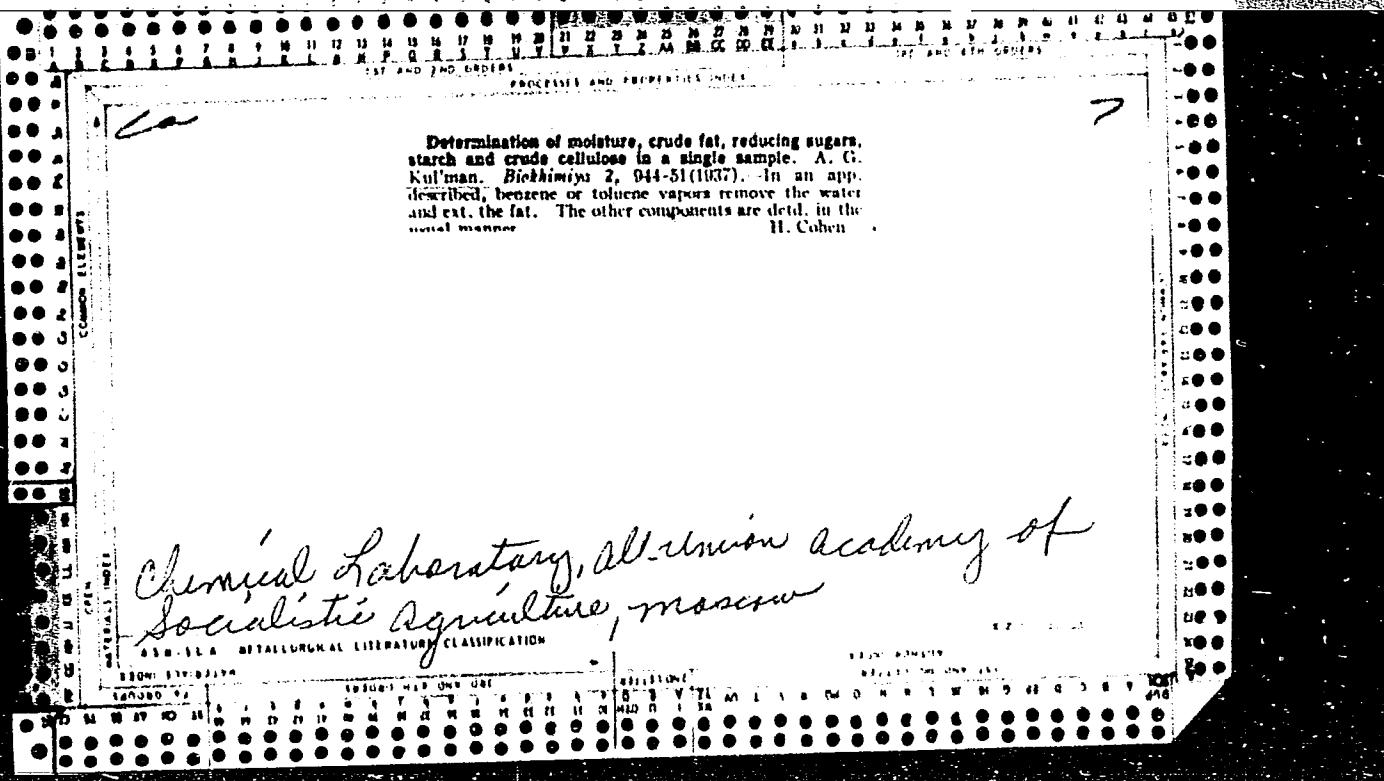
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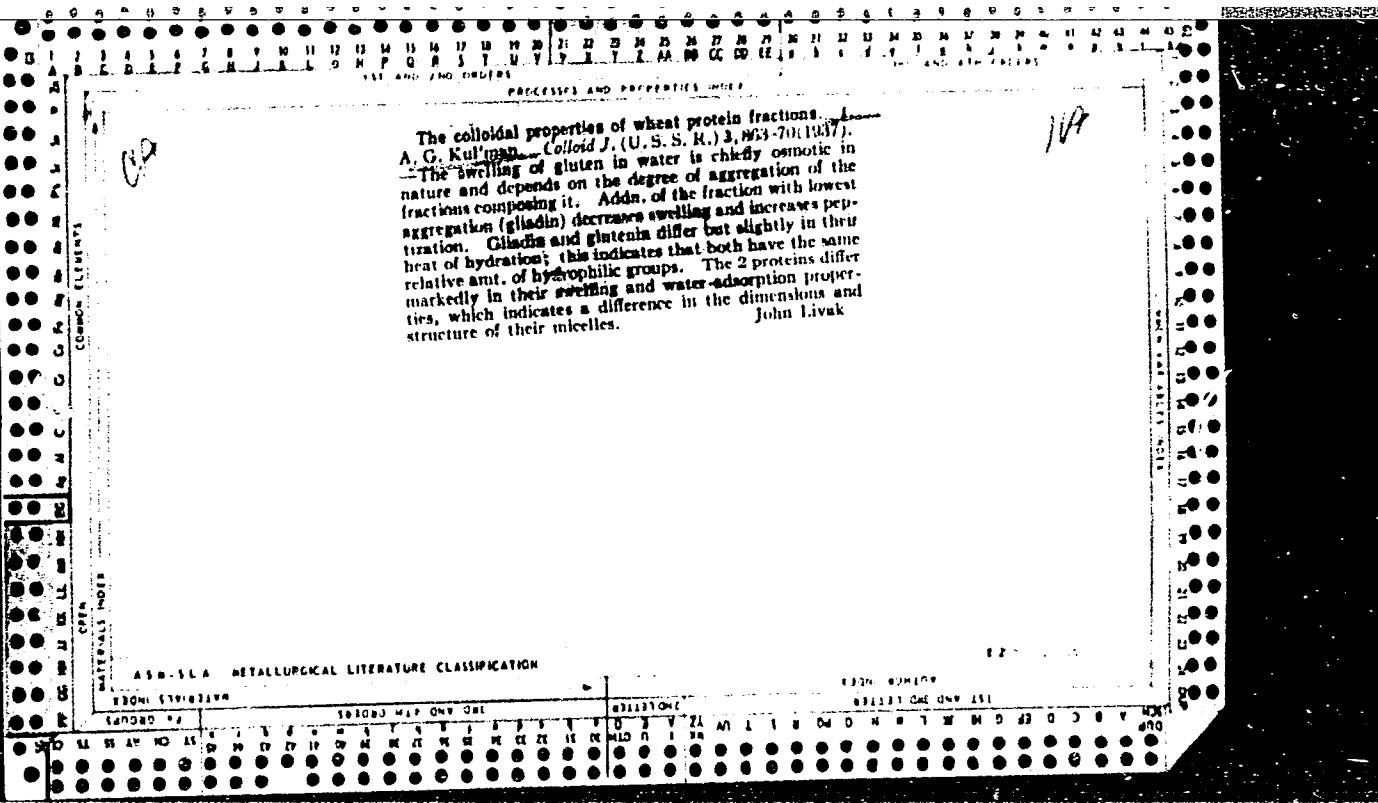


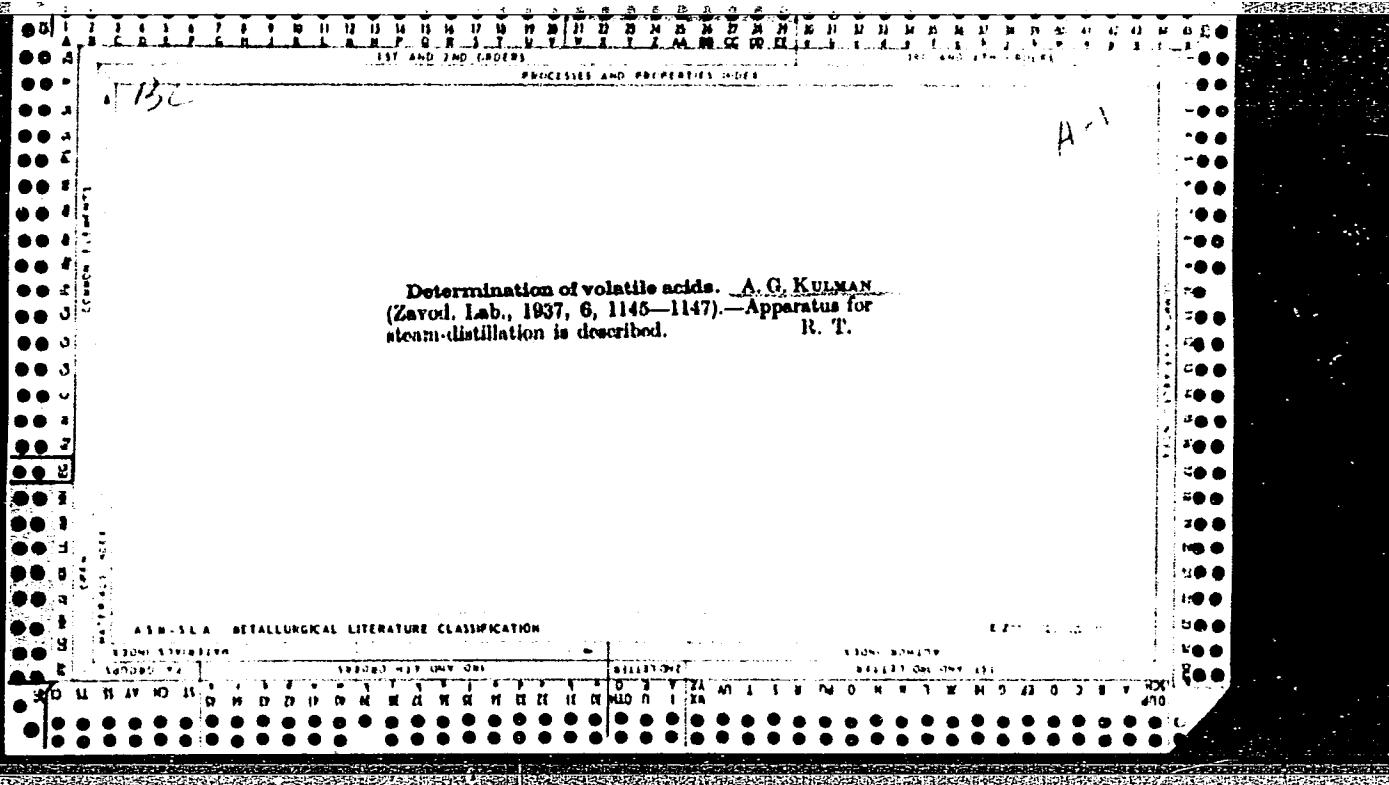
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A simple and rapid method for the direct determination of potassium fertilizers in "sovkhores" and "kolkhores." A. G. Kul'man, *Kalil* (U. S. S. R.) 1937, No. 10, 10-12; *Voprosy Referatov Zhur., I.*, No. 3, 60 (1938). The reaction with NaClO_4 which gives a KClO_4 ppt. in the presence of K salts is utilized. The advantage of the use of NaClO_4 is the low cost, the safety of handling it, and the fact that it can be easily washed. In U. S. S. R. K can be determined in the presence of the ions of Na, Mg, Ca, Ba, Zn, Al, Cu, and of H_2SO_4 , HNO_3 , HCl, H_3PO_4 , H_2SiO_4 and of others. The NH_4^+ ion hinders the pptn. because of its pptn. of NH_4ClO_4 together with KClO_4 . Therefore, in testing a sample of the fertilizer it should first be heated until no white fume of the NH_4 salts are given off. Then the salt is dissolved in water, the soln. is filtered and tested with NaClO_4 soln. This method was used successfully with a no. of fertilizer samples e.g. K. W. R. Henm

ASH-SEA METALLURGICAL LITERATURE CLASSIFICATION

ECONOMIC

INDUSTRIAL

TECHNICAL

SCIENTIFIC

EDUCATIONAL

GENERAL

BIBLIOGRAPHY

SERIALS

ADDITIONS

NOTES

REVIEWS

ERRATUM

CORRIGENDA

ERRATA

NOTICE

ADVICE

NOTICE

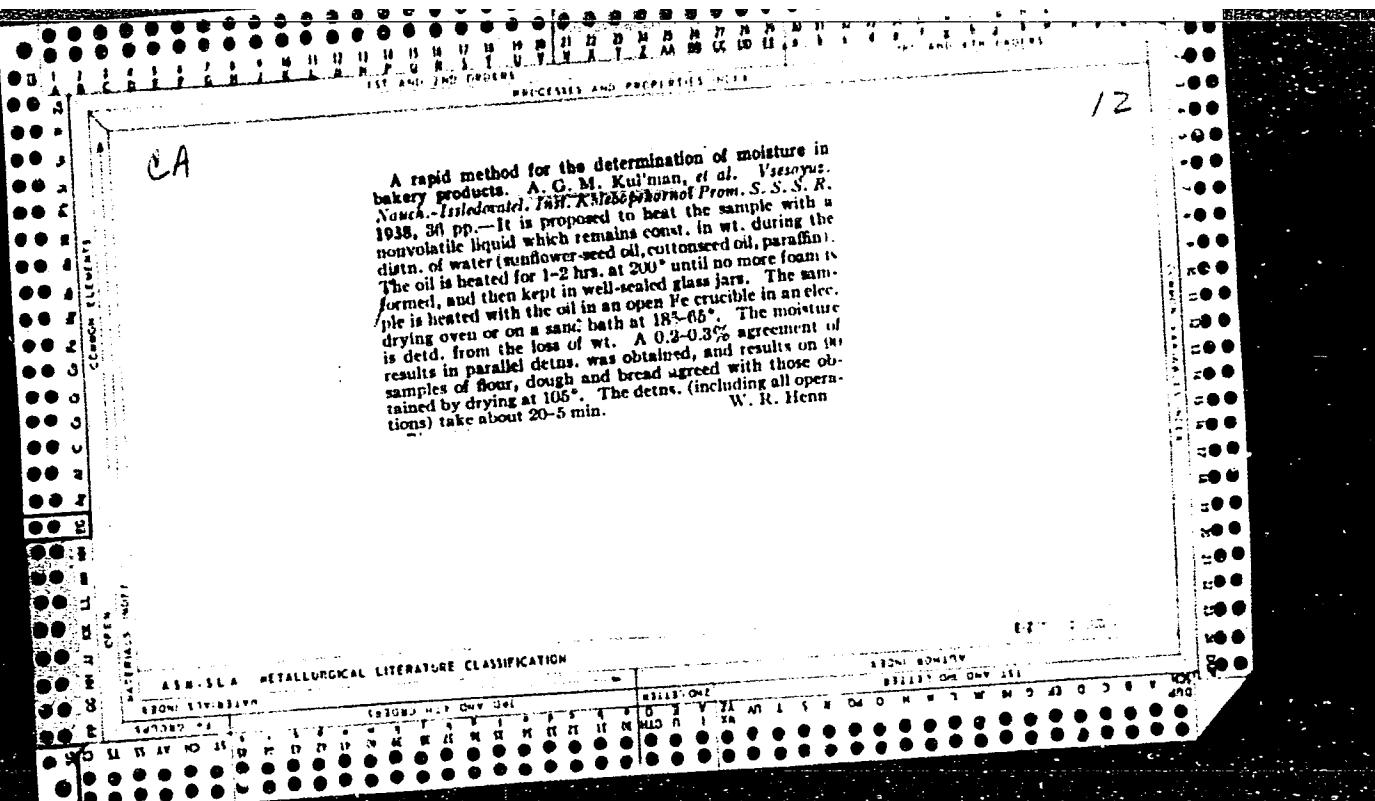
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PROCESSES AND PROPERTIES INDEX
1ST AND 2ND GROUPS

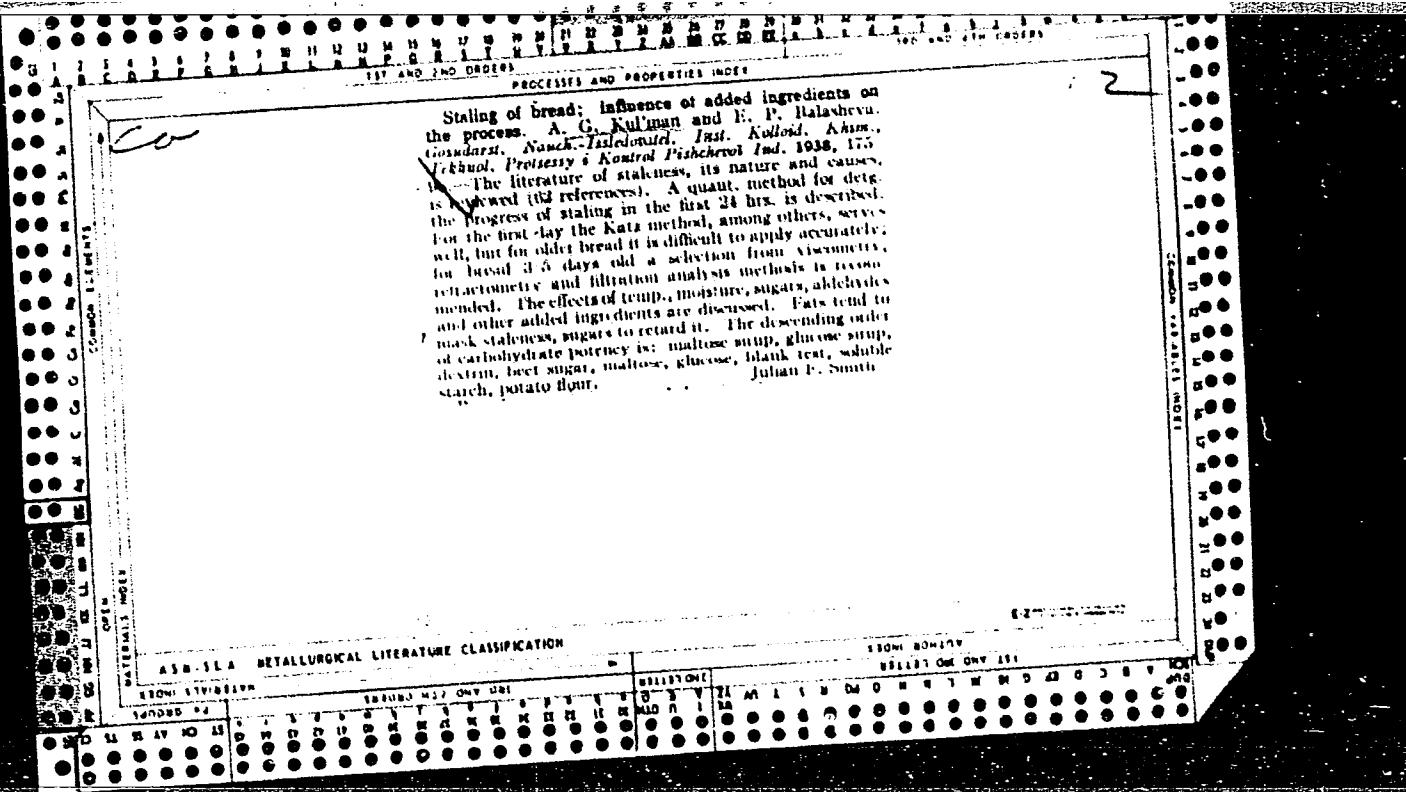
The control of defatting by surface activity of the extract.*
A. G. Kul'man and A. I. Gershuni. *J. Applied Chem.*
(U.S.S.R.) 10, 2072 (1958) (German 2081) (1957)
The method of "the highest pressure in small bubbles and
drops" Simon (*Ann. chim. phys.* [3], 32, 5 (1851)) and
the P. A. Rehbinder app. were used for detm. of surface
tension to indicate complete extrn. of fat. Quant. extrn. by
the Kul'man method (cf. C. A. 30, 6349) is recommended
in fat detm., because it is 5-10 times faster than Soxhlet
extrn. Thirty-six references. A. A. Postovny

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

GENERAL SUBJECT		SUBJECTIVE		METHODS		TESTS		APPARATUS		THEORY		INDUSTRIAL		TECHNICAL		ECONOMICS		PRACTICAL		EDUCATIONAL		BIBLIOGRAPHY	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	



1ST AND 2ND GROUPS		3RD AND 4TH GROUPS	
PROCESSES AND PROPERTIES (cont.)			
<p><i>Ca</i></p> <p>Colloids in bread making. A. G. Kul'man. <i>Gosudarst. Nauch.-Issledovatel. Inst. Kolloid. Khim.-Tekhnol. Promstsi i Kontrol Pischchev. Ind.</i> 1938, 134-48. Because the behavior of H_2O is such an influential factor in baking a study of bound H_2O in bread colloids was made; the refractometric method was used, since it is sufficiently accurate and much faster than other methods. Tables and curves show the bound H_2O and protein contents of potato, hard and soft wheat, oat, buckwheat, barley, maize, rye and soybean flours; bound H_2O and H_2O absorption of several varieties of hard and soft wheat flours; changes in absorption capacity during baking; influence of baking method (with or without yeast, maltose, etc.); content of sol. matter in flour, dough and bread in comparison with H_2O absorption capacity; and drying behavior of breads. By phys.-chem. analysis (coagulation with a hydrophilic-hydrophobic liquid mixt. such as EtOH-Et₂O) and plotting the results on triangular coordinates the hydrophilic nature of flours was estd. The series, in ascending order of H_2O absorption capacity and content of sol. matter, is: potato, buckwheat, wheat, rye, pea, soybean. The coagulation method (triangular coordinates) gives the same order. Deposition of protein also was studied by phys.-chem. analysis; curves show the effects of aq. EtOH, tauric acid and alkali on suspended gluten. Filtration analysis gave, as the ascending order of hydrophilic properties, potato, wheat, maize, rye, soybean. A disease of potatoes which infects bread made with potato flour causes large losses in Russia; its colloidal aspects are discussed. For detg. the H_2O-absorption capacity of flour the Freundlich method (C. A. 26, 3240) is preferred. Thorough references. Julian F. Smith</p>			
4TH-5TH GROUPS		6TH-7TH GROUPS	
8TH-9TH GROUPS			
10TH-11TH GROUPS			
12TH-13TH GROUPS			
14TH-15TH GROUPS			
16TH-17TH GROUPS			
18TH-19TH GROUPS			
20TH-21ST GROUPS			
22ND-23RD GROUPS			
25TH-26TH GROUPS			
28TH-29TH GROUPS			
31ST-32ND GROUPS			
34TH-35TH GROUPS			
37TH-38TH GROUPS			
39TH-40TH GROUPS			
42ND-43RD GROUPS			
45TH-46TH GROUPS			
48TH-49TH GROUPS			
51ST-52ND GROUPS			
54TH-55TH GROUPS			
57TH-58TH GROUPS			
60TH-61ST GROUPS			
63RD-64TH GROUPS			
66TH-67TH GROUPS			
69TH-70TH GROUPS			
72ND-73RD GROUPS			
75TH-76TH GROUPS			
78TH-79TH GROUPS			
81ST-82ND GROUPS			
84TH-85TH GROUPS			
87TH-88TH GROUPS			
90TH-91ST GROUPS			
93RD-94TH GROUPS			
96TH-97TH GROUPS			
99TH-100TH GROUPS			



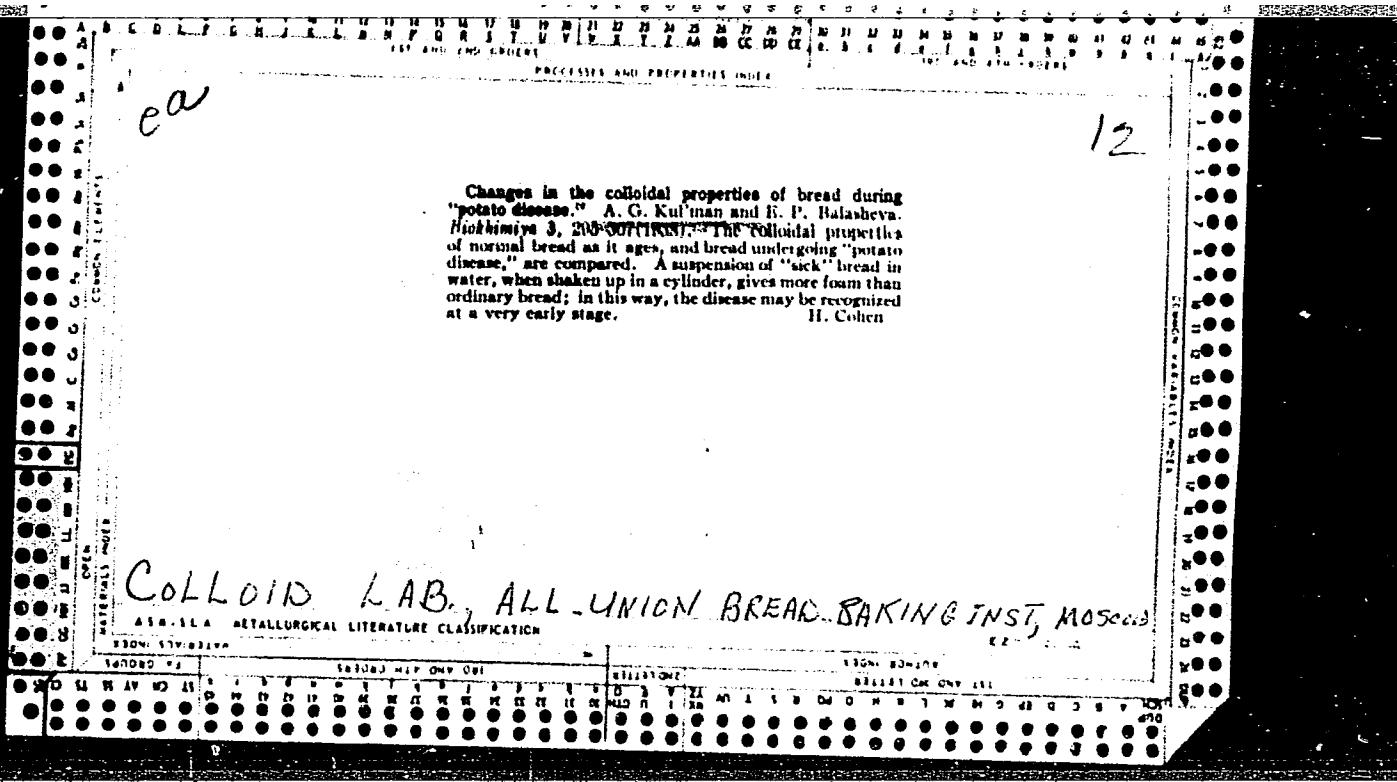
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12

Solvatation of the biocolloids of winter and spring wheats. A. G. Kul'man. *Biokhimiya*, 3, 289-94 (1988). Viscosity measurements and filtration tests indicate that the colloids of winter wheat are more hydrophilic than the colloids of spring wheat. H. Cohen.

Colloid Lab., All-Union Bread-Baking inst., Moscow

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1ST AND 100-080183 100 AND 4TH 080283

The swelling of wheat flour. II. A. G. Knutman and O. N. Golosova. *Colloid J.* (U. S. S. R.) 4, 107-12 (1939).—Swelling of wheat flour is compared with that of its starch and its gluten. The swelling of starch is small below 50° , then rises rapidly, and is large between 60° and 100° , while gluten swells much between 20° and 30° and little above 40° . The swelling of flour in water below 55° is similar to that of gluten, and above 60° to that of starch. J. J. Bikerman

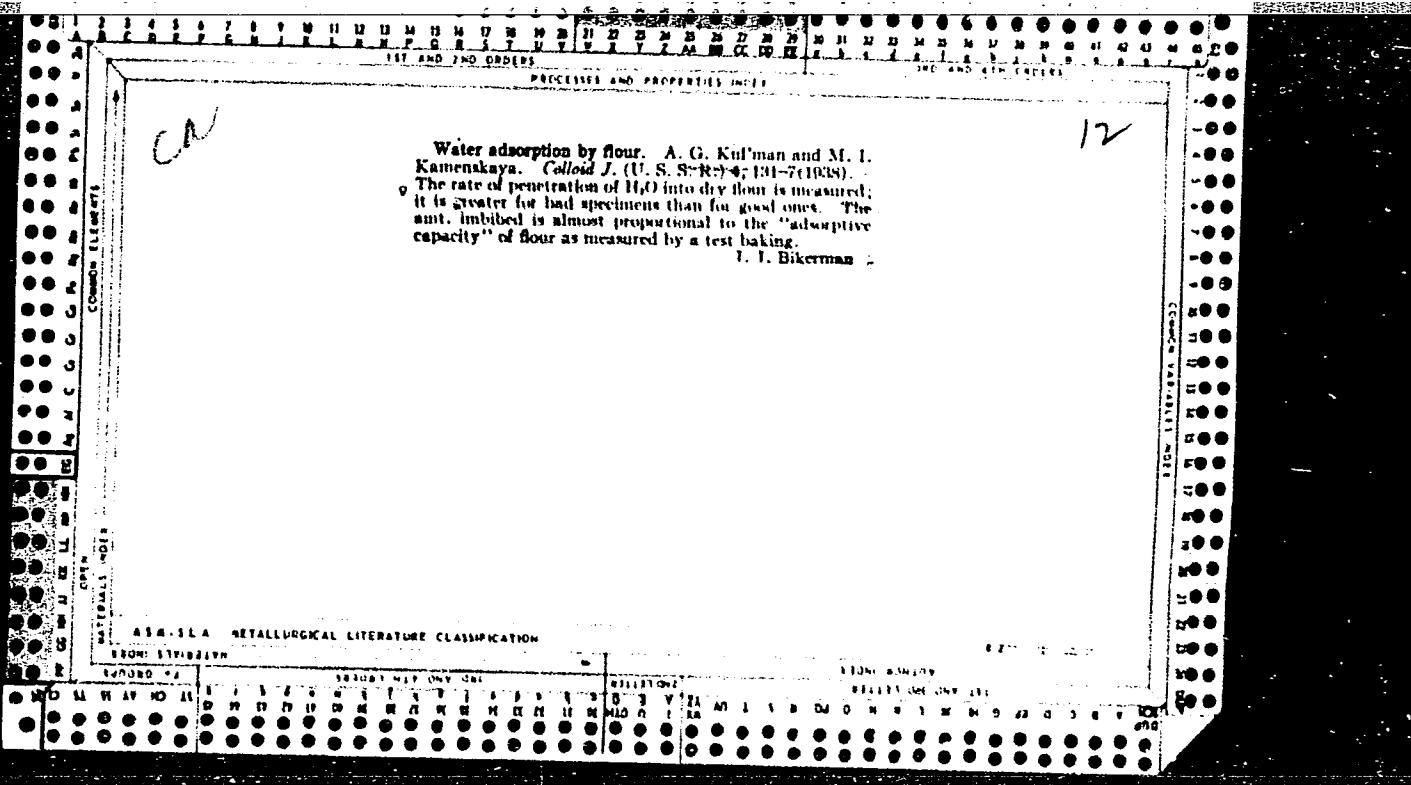
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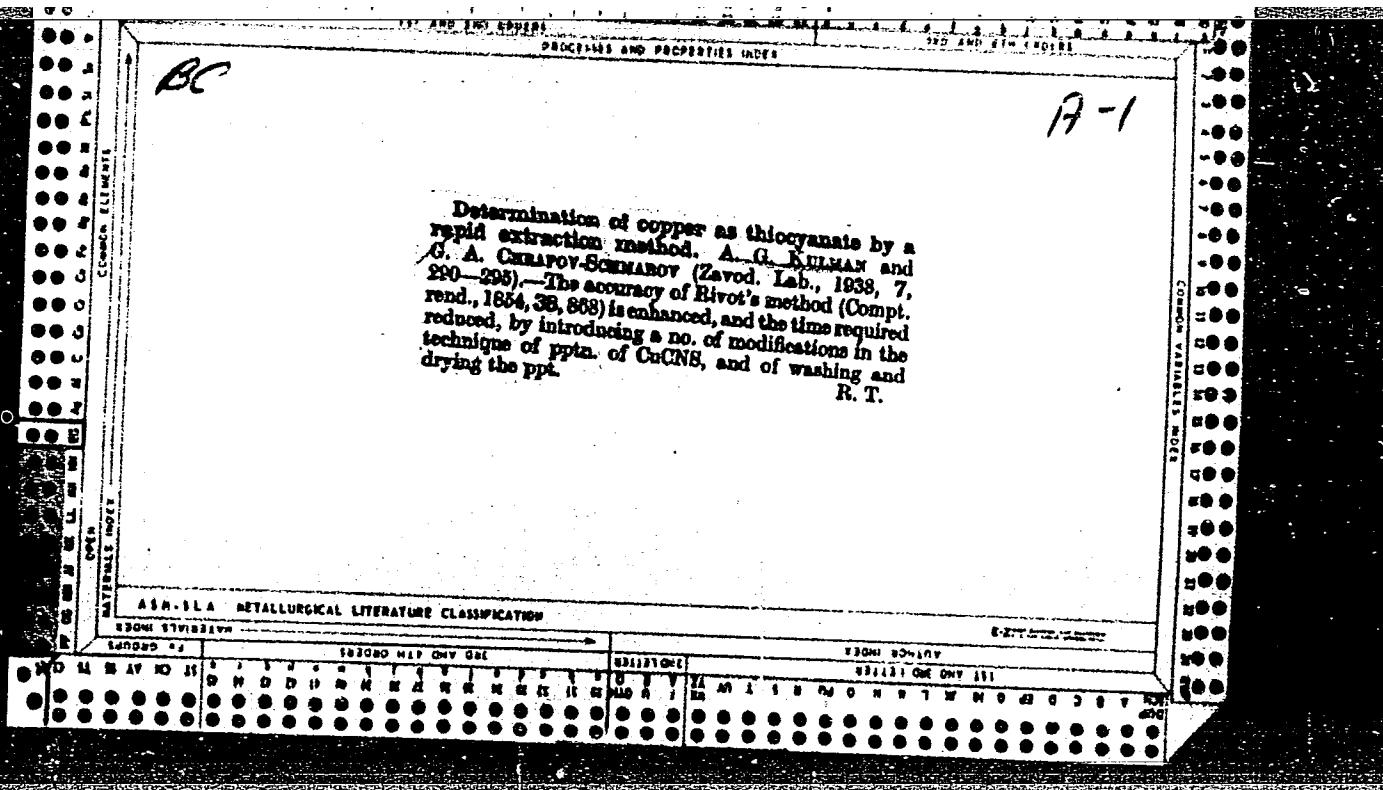
11.1.1. METALLURGICAL LITERATURE CLASSIFICATION

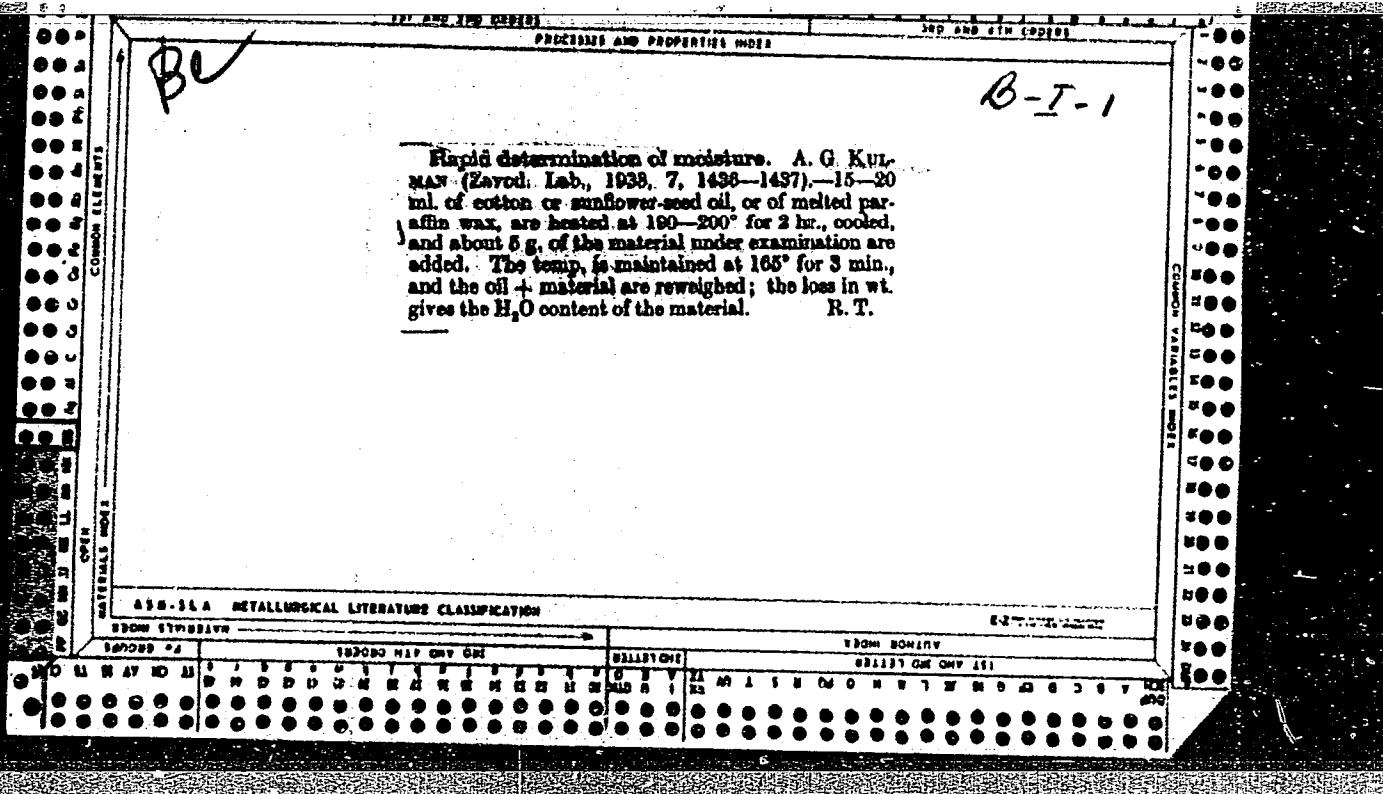
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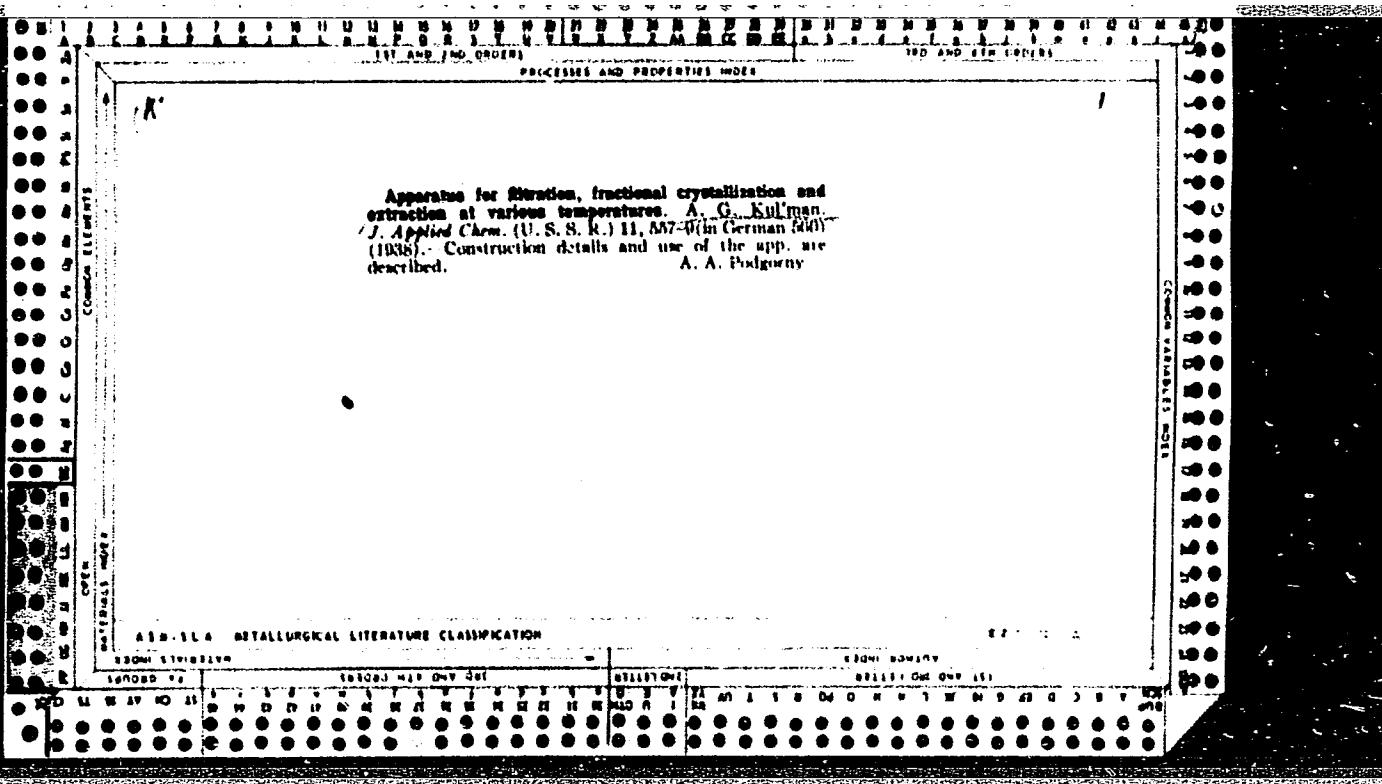
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CA

PROBLEMS AND PROPOSITIONS

A new apparatus for accelerated quantitative determination by the gravimetric method. A. G. Kuf'yan (The Moscow Molotov Inst. for the Mechanization and Electrification of Agriculture). Zernozem Lab., 11, 101-3 (1948).—A new app. is described by means of which it is possible to carry out the whole analysis (beginning with sample taking and ending with weighing) in one vessel. The chief part of the app. consists of a vessel with a bottom made of porous glass. The upper part of the vessel is connected with a head through which 2 funnels with stop-cocks are inserted. The head is connected to a water suction pump by means of a tube through a 3-way stop-cock. The lower part of the vessel is connected by means of a funnel to a Bunsen flask. An inert gas can be passed through the system. Details for the analysis are given. The individual parts of the app. for taking filtrate samples for ppm, at high temps., for analysis of dield. solns., for titration, and for ppm, and titration are described. The app. can be used to det. Ba^{++} and SO_4^{--} as BaSO_4 ; Ag^+ and Cl^- as AgCl ; Sb^{+++} , Cu^{++} , Hg^{++} , etc. as their sulfides; Co as Co thiocyanate ; Ni , Al , and Pb by pptg. with org. reagents; X by pptg. with dipicrylamine or Na cobaltinitrite . 23 references. W. R. Head

W. R. Hegg

ASA-SEA INTELLIGENCE INFORMATION FORUM

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ca

Automatic pipet. A. U. Kulinova (Moscow Inst. of Mechanization Medicine). *J. Applied Chem. (U.S.S.R.)* 18, 534-7 (1945).—A simple and rapid pipet with variable rate of outflow and with possibility of use for 2-vol. measurements is constructed by placing a sintered filter plate across the upper part of the pipet bulb. In use, the liquid is sucked past the plate and then allowed to drain until the level reaches the porous plate, at which point no further flow occurs and the pipet may be handled without spillage. For emptying, a partial pressure (by mouth) is applied and the bulb flow is readily controlled by the operator with possibility of a pos. stop at any desired point. Theory of operation is discussed. O. M. Krasiloff

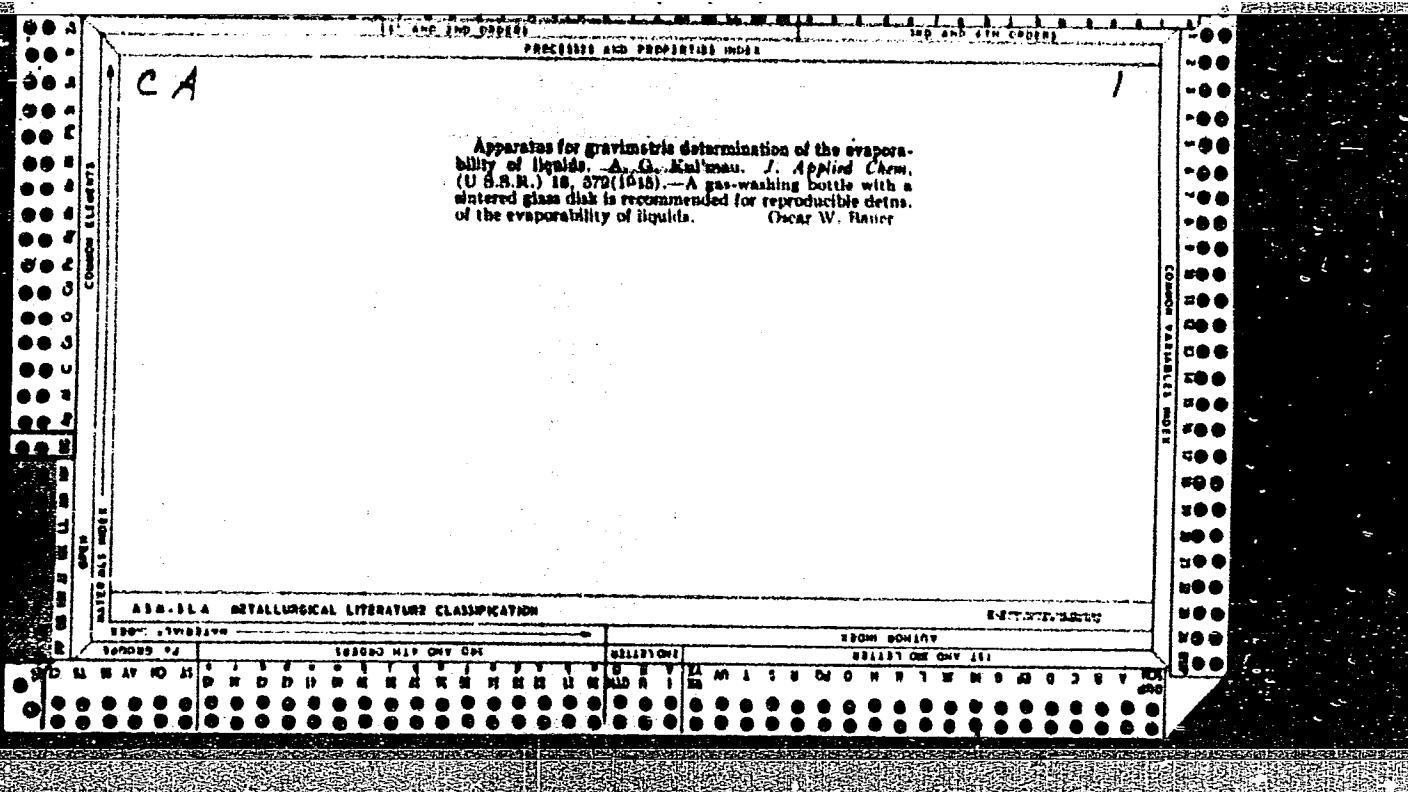
Q. M. Kondapalli

100-114 METALLURGICAL LITERATURE CLASSIFICATION

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KUL'MAN, A. G.

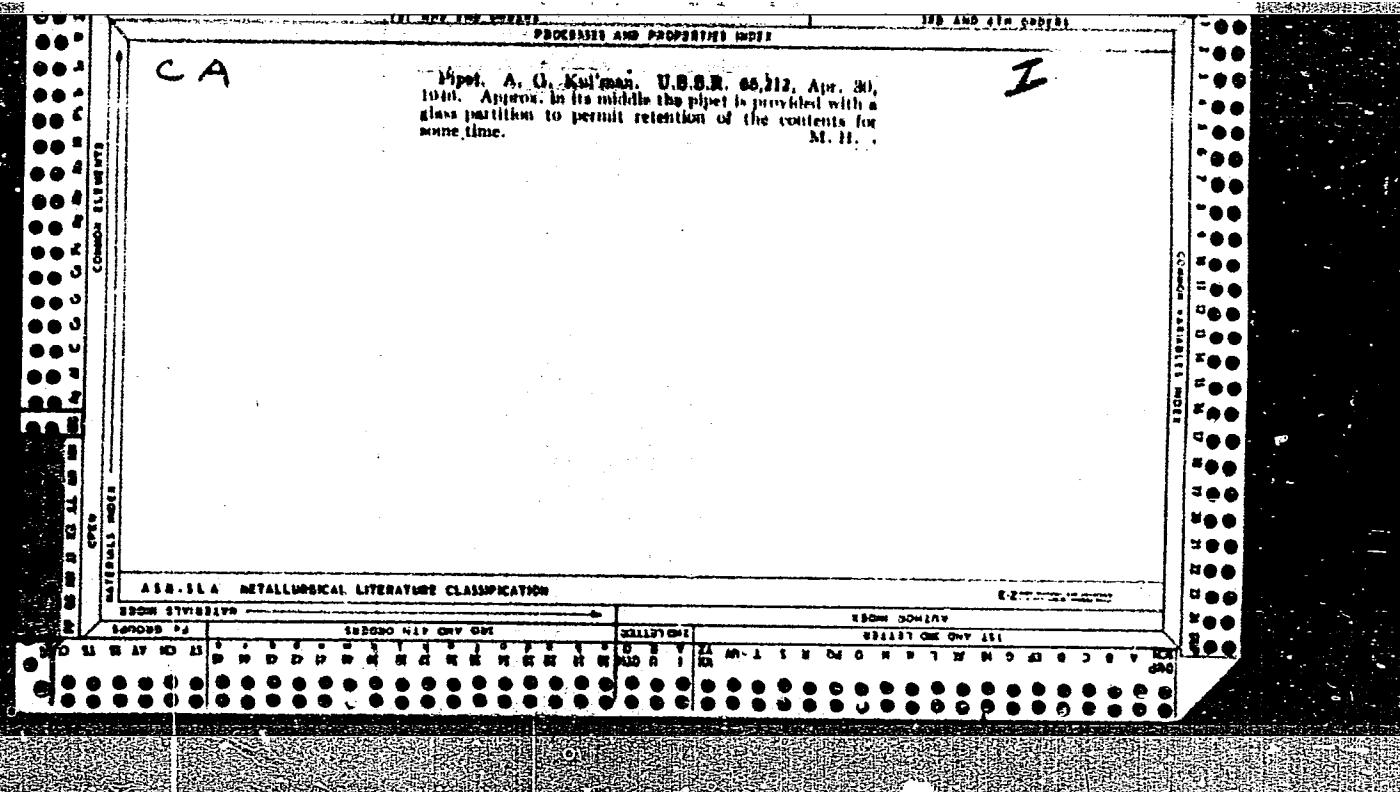
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Cyr. 4QD53

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"Anton Vladimirovich Dumanskiy," Sakharная Промышленность [Sugar Industry],
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KUL'MAN, A.G.

Chemical Abst.
Vol. 48
Apr. 10, 1954
Foods

Investigation of colloidal and chemical properties of bread baked by electric current. A. G. Kul'man and R. A. Branopol'skaya. *Ukrain. Khim. Zhur.* 16, No. 3, 457-69 (1950).—The dough is exposed to a.c. which develops enough heat to bake it. The temp. within the whole loaf remains the same, so that the colloidal properties of bread are the same throughout the whole loaf. To bake, the potential can be changed, whereby the current remains the same, or the potential can be kept constant, thus causing the changes in current due to various processes in the dough. Baking time is decreased considerably. The colloidal properties of rye and wheat bread baked to different degrees both by the regular and elec. method are investigated. The relation between the potential and temp. in bread baked by elec. current is established. During the process of change from dough to bread the ability of bread colloids to bind water decreases, owing to absorption and osmotic processes taking place. The regularity of change of colloidal properties in both regular and elec. baking is analogous. A specific property of the bread baked by elec. current is the ability to produce foam in their aq. exts. and the stability of this foam with respect to time. This indicated that the heating of dough by elec. current is not identical with the heating in regular baking process.

V. Mihajlov

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P.A.Rebindera. Moskva, Izd-vo Pishchepromisdat, 1953. 246 p.
[Microfilm]
(Bread) (Colloids)

KUL'MAN, A.G., professor.

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Khim. v shkole 9 no.6:67-69 N-D '54. (MLRA 8:1)
(Chemistry--Study and teaching)

KUL'MAN, Avgust Gustavovich; KAPLAN, G.D., redaktor; BALLOD, A.I., tekhnicheskiy redaktor.

[Collection of problems and exercises in chemistry] Sbornik zadach i uprazhnenii po khimii. Moskva, Gos. izd-vo selkhoz. lit-ry, 1955.
167 p. (MIRA 9:4)

(Chemistry--Problems, exercises, etc.)

PHASE I BOOK EXPLOITATION

631

Kul'man, Avgust Gustavovich

Fizicheskaya i kolloidnaya khimiya (Physical and Colloidal Chemistry)
2d ed., rev. and enl. Moscow, Pishchepromizdat, 1957. 412 p.
10,000 copies printed.

Ed. (title page): Rebinder, P.A., Academician. Ed. (inside book):
Belikova, L.S. Tech. Ed.: Chebysheva, Ye.A.

PURPOSE: This manual is intended for students specializing in technology
at the technical schools (tekhniums) of the food industry and for workers
of the food industry.

COVERAGE: This book covers the field of physical chemistry and colloidal
chemistry according to requirements for secondary technical schools.
The text is made easier by the introduction of numerous tables, diagrams,
graphs, and illustrations. The needs of food technologists are taken
into consideration.

Card 1/4

Physical and Colloidal Chemistry 631

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Card 4/4

AUTHOR: Kul'man, A.G., Professor, Doctor of Chemical Sciences SOV-3-58-8-4/26

TITLE: The Role of Chemical Engineering Rises (Vozrastayet rol' inzhenernoy khimii)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 8, pp 20 - 22 (USSR)

ABSTRACT: The May Plenum of the TsK KPSS has set goals in the field of chemistry, which make it necessary for the higher school instructors to study the entire system of training vtuz students in chemistry. The problem of so-called chemical engineering has been studied for some time. Great experience in this field has been gained by the chairs of chemistry of such Moscow vtuzes as the MVTU imeni Bauman, the Moskovskiy institut inzhenerov zheleznodorozhnogo transporta (Moscow Institute of RR Engineers), The Power Engineering, the Aviation, the Highway and other institutes. However, the work of these chairs has not become widely known to pedagogical circles. The number of textbooks on general chemistry is far too small. N.L. Glinka's has won wide recognition, and in 1957, the valuable textbook of M.K. Strugatskiy and B.P. Nadeinskiy was published. But these books are insufficient. The country's vtuzes are usually divided into 2 groups - chemical

Card 1/2

The Role of Chemical Engineering Rises

SOV-3-58-8-4/26

and non-chemical. The author says that it is necessary to divide them into 3 categories: 1) chemical, 2) technological and biological, 3) vuzes of an engineering-mechanical type. While the first two categories are supplied with a good program and good teaching aids, the vuzes of the engineering type still need special programs, textbooks, problem books and books for laboratory use. The author speaks of an under-rating of the role of chemistry at the engineering vuzes, and considers the article of Professor I.N. Putilova and Docent G.A. Raytsyn in Nr 7 of this periodical, to have been published at the proper time. There is 1 Soviet reference.

ASSOCIATION: Moskovskiy iistitut mekhanizatsii i elektrifikatsii sel'skogo khozyystva (Moscow Institute of Agricultural Mechanization and Electrification)

Card 2/2

KUL'MAN, Avgust Gustavovich; REBINDER, P.A., akademik, retsenzent;
GLADILOVICH, B.R., dots., retsenzent; TRAVITSKAYA, E.O.,
dots., retsenzent; OZEROV, V.N., red.; CHELYSHKIN, Yu.I.,
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On G.P.Khomchenko's article "Coordination between teaching of chemistry in secondary schools and in institutions of higher learning." Khim. v shkole 18 no.3:70-71 My-Je '63. (MIRA 16:9)
(Chemistry--Study and teaching)

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